

**Abstract****IMBALANCE MEASURING DEVICE AND METHOD FOR IMBALANCE  
MEASUREMENT**

In the case of an imbalance measuring device with a bearing device for static fluid bearing of the rotor (1), to improve the balance quality and to shorten the required time for balancing, it is proposed that the bearing device has at least two open, fluid-supplied bearing shells (11, 11') to receive sections of the rotor periphery and at least one bearing plate (12, 12') which is assigned to a rotor end surface and supplied with fluid. The drive is decoupled from the rotor (1) during the imbalance measuring process, and the measuring process preferably takes place during time-variable rotary behaviour of the rotor (1).

Signature: Fig. 1